AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 of 2

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
1	8-Jan-2002		

6. ISSUED BY	CODE	7. ADMINISTERED BY *(If other than item 6)*	CODE
US Army Corps of Engineers, Kansas City District 760 Federal Building, 601 East 12th Street Kansas City, Missouri 64106-2896			

8. NAME AND ADDRESS OF CONTRACTOR *(No.,street, county, State and ZIP Code)*	(x)	9a. AMENDMENT OF SOLICITATION NO.
	X	DACW41-02-B-0001
		9B. DATED *(SEE ITEM 11)* 12/22/2001
		10A. MODIFICATION OF CONTRACT/ORDER NO.
		10B. DATED *(SEE ITEM 13)*
CODE FACILITY CODE		

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[X] The above number solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [ ] is extended, [X] is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitaiton or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegraph which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFEF If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS,
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: *(Specify authority)* THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBER CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES *(such as changes in paying office, appropriation date, etc.)* SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF:
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER *(Specify type of modification and authority)*

E. IMPORTANT: Contractor [ ] is not, [ ] is required to sign this document and return copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION *(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)*

Missouri River Levee System, Levee Unit L-385
Phase I - Quindar Levees and Stop Log Gap
Phase II - Quindaro - Riverside Levees and Structures

The Solicitation is amended in accordance with the attached pages.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER *(Type or print)*	
15B. CONTRACTOR/OFFEROR *(Signature of person authorized to sign)*	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY *(Signature of Contracting Officer)*	16C. DATE SIGNED

The SOLICITATION is amended as follows:

NARRATIVE: Bidders are advised that folders labeled "InfoDwgPhI" and "InfoDwgPhII" are included on the CDRom for information only, and may be accessed through Windows Explorer. Contained within the folders are aerial photographs, profiles, topographical maps, and a general site plan. Bidders may use the information contained within these folders for electronically generating quantity take-offs.

1. SPECIFICATIONS: The following pages have been deleted and are replaced with revised pages of the same numbers. Copies of the revised pages are attached.

Page 6 of 114	02378-5
Page 9 of 114	02378-6
Page 24 of 114	15301-3
Page 25 of 114	15301-4
Page 42 of 114	15301-5
Page 43 of 114	
Page 44 of 114	
Page 45 of 114	
Page 49 of 114	
Page 55 of 114	
Page 67 of 114	
Page 77 of 114	
Page 78 of 114	

2. DRAWINGS:

(a) Figure 1 is an insert drawing, titled "Proposed 86" Sanitary Sewer Gatewell 6A Revision", which is inserted after Section 02104. A copy of the insert drawing is attached.

(b) The following drawings are deleted and replaced with revised drawings with the same numbers and names. Copies of the revised drawings are attached.

(1) Sheet C-20, Typical Riprap Levee Section

(2) Sheet C-79, Quindaro Pump Station Grading Plan

(3) Sheet C-80, Quindaro Pump Station Excavation Sections

3. Bidders are required to acknowledge receipt of this amendment on the Bidding Form, in the space provided, or by separate letter or telegram prior to opening of bids. Failure to acknowledge all amendments may cause rejection of the bid.

4. Bids will be received until 2:00 p.m., local time, 5 February 2002, in Room 760 Federal Building, 601 E. 12th Street, Kansas City, Missouri 64106-2896. and at that time publicly opened.

Encls
1. Spec pgs as listed
2. Drawing as listed

DACW41-02-B-0001-0001

Project: Missouri River Levee System, Quindaro Levee and Stoplog Gap, (Levee Unit L-385), Riverside, Missouri

BIDDING SCHEDULE

~~**BASE SCHEDULE PHASE I**~~

ITEM NO.	**DESCRIPTION**	**EST QTY**	**UNIT**	**UNIT PRICE**	**SUBTOTAL**	**AMT**
0001	Utility Relocations by Others, Design		LS			$450,000
0002	Utility Relocations by Others, Construction		LS			$_____
0003	Utility Relocations by Contractor		LS			$_____
0004	Clearing and Grubbing		LS			$_____
0005	Required Excavation	415,777	CY	$_____		$_____
0006	New Fencing	4,235	LF	$_____		$_____
0007	Site Work for Q2		LS			$_____
0008	14 x 102 H-Piles	1, 660	LF	$_____		$_____
0009	Test Piles – Mob/Demob		LS			$_____
0010	Test Piles – Tensile Load Test		LS	$_____		$_____
0011	Test Piles – Lateral Load Test		LS	$_____		$_____
0012	Test Piles Compressive Compressive Load Test		LS	$_____		$_____
0013	I-Wall Sheetpiling (steel)		LS			$_____
0014	Seepage Cutoff		LS			$_____

Project: Missouri River Levee System, Quindaro Levee and Stoplog Gap,
(Levee Unit L-385) Riverside, Missouri

BIDDING SCHEDULE PHASE I BID NOTES

0002 Utility Relocations by Others, Construction – Reimbursable Utility Relocations – The item includes all work that is performed by the respective utility companies to relocate the existing utility over the levee. The utility company shall furnish the Contractor itemized invoices showing the actual cost incurred, less betterments, for the utility relocation. The Contractor shall furnish the Government these itemized invoices for verification and possible negotiations. After the parties have agreed upon the construction amount, the Government will adjust the contract lump sum price for this item to the agreed construction amount. No additional markups for the Contractor are to be added to the utility company's charges. This cost will be handled as a pass thru cost. The relocations includes the following:

- Conoco – Fuel Line Alterations – 8" Fuel Line, Sta 118+97
- Williams Natural Gas – Gas Line Alteration – 26" Gas Line, Sta 176+00
- Williams Natural Gas -- Storm Sewer Removal – 15" CMP, Sta 178+50

0003-Utility Relocations performed by Contractor – The work includes all work required to relocate utilities identified below. The work also includes utility investigation and analysis as well as overall utility coordination and scheduling.

- Intercontinental Corporation Utility Service Alteration – Air Line Relocation, Sta 40+51 - This item includes all work required to relocate Intercontinental Corporation 2" steel airline. The work includes clearing & grubbing, stripping and stockpiling of topsoil for pipeline right of ways, trench excavation, dewatering and shoring of trench walls as required; subgrade preparation and fine grading; providing, handling, connecting, and placing airline pipe and fittings; backfilling and compacting with clean excavated material; excavation for removal of existing airline to required limits; making new pipe connections; backfilling/compaction with clean excavated material; and testing of airline for leaks;

- Intercontinental Corporation Utility Service Alteration – 30" Storm Sewer Pipe – This item includes all work associated with the abandonment of the 30" Storm Sewer pipe.

- Intercontinental Corporation Utility Service Alteration – 8" Drain Pipe – This item includes all work associated with the removal of the 8" Drain located at Station 40+30.

- Intercontinental Corporation Utility Service Alteration – Electrical Line Relocation, Sta 41+03 - This item includes all work required to relocate Intercontinental Corporation Electric service line. The work includes clearing & grubbing, stripping and stockpiling of topsoil for pipeline right of ways, trench excavation, dewatering and shoring of trench walls as required; subgrade preparation and fine grading; providing, handling, connecting, and placing conduit and electric line; backfilling and compacting with clean excavated material; excavation for removal of existing electrical line to required limits; making new line connections; backfilling/compaction with clean excavated material; and testing of electrical lines;

- Intercontinental Corporation Utility Service Alteration – Remove Sanitary Lagoon Pipe and Manhole Connection and grouting of existing 8" pipe – The work includes clearing & grubbing, stripping and stockpiling of topsoil for replacement, excavation, dewatering and shoring as required, removal of pipe and manhole, backfilling and compaction with clean excavated material. The work also includes the grouting of the existing 8" sanitary pipe.

DACW41-02-B-0001-0001

Project: Missouri River Levee System, Quindaro Levee and Stoplog Gap, (Levee Unit L-385), Riverside, Missouri

BIDDING SCHEDULE

~~OPTION SCHEDULE PHASE II~~

ITEM ~~NO.~~	**~~DESCRIPTION~~**	**EST ~~QTY~~**	**~~UNIT~~**	**UNIT ~~PRICE~~**	**~~SUBTOTAL~~**	**~~AMT~~**
0109a	Government Field Office (OPTION 1)	36	MONTHS	$_____		$_____
0109b	Anti-Graffiti Sealer (OPTION 2)	54,300	SF	$_____		$_____

TOTAL BASE AND OPTION SCHEDULE PHASE II $_____

Determination of the Bidder's total price for the proposed work will be based on the TOTAL of the BASE SCHEDULE and OPTION SCHEDULE. Immediate award will be made of the BASE SCHEDULE. At the option of the Government, the OPTION SCHEDULE may be awarded at the bid price after Notice of Award for the BASE SCHEDULE work. The Government does not guarantee any work beyond that of the BASE SCHEDULE. The Government reserves the right to pick up the OPTION SCHEDULE at the bid price within 60 calendar days after the Notice to Proceed. Bidders' attention is directed to SECTION 00100, paragraph titled "Evaluation of Options".

Following are descriptions of work for each bid item for purposes of determining measurement and Payment.

BIDDING SCHEDULE PHASE II BID NOTES

0039: Mobilization/Demobilization – Mobilization of equipment and facilities during the contract is the transport, initial assembly and setup of construction equipment prior to project startup. Work associated with mobilization will include preparation of equipment for transport, equipment transportation and setup, manifest, tolls, permits, escort vehicles, drivers, and equipment operators. Demobilization of equipment and facilities is the disassembly and transport offsite of construction equipment after its use has been completed. Work associated with demobilization will include disassembly of equipment for transport, equipment transportation, manifest, tolls, permits, escort vehicles, drivers, and equipment operators. Fifty percent (50%) of Mobilization/Demobilization will be paid for Mobilization and the remaining fifty percent (50%) will be paid for demobilization.

0040: Utility Relocations – Reimbursable Utility Relocations – The design item includes all labor, materials, and equipment required for the preparation and submittal of the final plans and specifications for the relocation of the specified utilities. The construction item includes all work that is performed by the respective utility companies to relocate the existing utility over the levee. The utility company shall furnish the Contractor itemized invoices showing the actual cost incurred, less betterments, for the utility relocation. The Contractor shall furnish the government these itemized invoices for verification and possible negotiations. After the parties have agreed upon the construction amount, the government will adjust the contract lump sum price for this item to the agreed construction amount. No additional markups for the Contractor are to be added to the utility company's charges. This cost will be handled as a pass through cost.

Project: Missouri River Levee System, Quindaro Levee and Stoplog Gap,
(Levee Unit L-385) Riverside, Missouri

0041: Demolition/Site Work – This item includes all labor, equipment, and materials costs associated with Fence removal and disposal of fence to be removed, and the replacement of fence as shown on the plans. This item also includes all labor, equipment, and material costs associated with the demolition of the East and West Parking Lots of Argosy including saw cutting of pavement, pavement removal and disposal, curb removal and disposal, light pole removal and disposal, manhole removal and disposal, pipe demolition and disposal, curb inlet removal and disposal, and the abandonment of pipes. Also included in this item is the new pavement, curb, and light poles at the Argosy.

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Project: Missouri River Levee System, Quindaro Levee and Stoplog Gap, (Levee Unit L-385), Riverside, Missouri

BIDDING SCHEDULE PHASE II BID NOTES

- GW#9 Relief Wells 5&6 – The work includes all costs associated with mob/demob to the site, drilling for wells, provision and installation of well casing, screens, plugs, centralizers, filter pack, grout, outflow pipe, flap gate, pvc pipe, and metals for lid; sterilization; pump test; soil tests.

- Gatewell Structure #10 – The work includes all costs associated with the construction of the base slab, walls, elevated slab, metals, pipe, cradle, concrete collar, outlet structure, flap gate, ditch, associated excavation, backfilling to preconstruction ground elevation, and compaction.

- Gatewell Structure #11 - The work includes all costs associated with the construction of piles for the base slab, base slab, walls, elevated slab, metals, pipe, cradle, inlet/outlet structure, flap gate, associated excavation, backfilling to preconstruction ground elevation, and compaction.

- Gatewell #11 Relief Wells 1 thru 4 – The work includes all costs associated with mob/demob to the site, drilling for wells, provision and installation of well casing, screens, plugs, centralizers, filter pack, grout, outflow pipe, flap gate, pvc pipe, and metals for lid; sterilization; pump test; soil tests.

- Sewer System #1 – Design - The work includes all the design costs associated with the design of gatewell #6A, and metals associated with gatewell #6A.

- Sewer System #1 – Construction - The work includes all costs associated with the construction of gatewell #6A, the provision and installation of the 66” RCP, metals associated with gatewell #6A, demolition, associated excavation, backfilling, compaction, and the temporary bypass.

- Drainage System #2 – The work includes all costs associated with the construction of gatewell #6B, the provision and installation of the 24” RCP, metals associated with gatewell #6B, demolition at JB-5 to EXMH28; temporary bypass for JB-5; Manhole JB-5, MH-6, JB-7; demolition of existing 24” VCP/CMP; demolition/modification of EXMH-28; associated excavation, backfilling to preconstruction ground elevation, and compaction.

- Drainage System #3 – The work includes all costs associated with the construction of Gate Structure GS-3, the demolition of the 6’x6’ RCB, the provision and installation of the 18” RCP, 18” DIP, grate inlet GI-14, curb inlet CI-13, and associated excavation, backfilling to preconstruction ground elevation, and compaction.

- Drainage System #4 – The work includes all costs associated with the construction of an inlet/outlet structure, manhole MH-12, 60” RCP, manhole MH-11, manhole MH-10A; associated excavation, backfilling to preconstruction ground elevation, compaction, and riprap.

- Drainage System #5 – The work includes all costs associated with the provision and installation of the 54” RCP, 30” RCP, outlet structure, field inlet FI-1, JB-2, JB-3, JB-4; associated excavation, backfilling to preconstruction ground elevation, and compaction.

Project: Missouri River Levee System, Quindaro Levee and Stoplog Gap,
(Levee Unit L-385) Riverside, Missouri

BIDDING SCHEDULE PHASE II BID NOTES

- Drainage System #6A – The work includes all costs associated with the provision and installation of the 15" RCP, manhole MH-8; modification of exist EXCI-6; associated excavation, backfilling to preconstruction ground elevation, and compaction.

- Drainage System #6B – The work includes all costs associated with the provision and installation of the 48" RCP, 15" RCP, manhole MH-9; modification of EXCI-12; outlet structure; associated excavation, backfilling to preconstruction ground elevation, and compaction.

- Drainage System at 9B – The work includes all costs associated with the provision and installation of the 18"/30" RCP, 18"/30" Inlet structure, 18"/30" Outlet Structure; demolition and disposal of pavement; pavement repair; associated excavation, backfilling to preconstruction ground elevation, and compaction.

-Interior Detention Basin South Red-X – The work includes all costs associated with the provision and installation of the 15" CMP; excavation, backfilling and compaction for the 15" CMP; Excavation for the detention pond; and detention pond landscaping.

- Red-X Ditch – The work includes all costs associated with excavation and grading of the ditch; the construction of Junction Box JB-R98; the associated excavation, backfilling, and compaction for the extended pipe and junction box; demolition of the CMP in the Junction Box.

- Drainage System at ProLogis – The work includes all costs associated with the provision and installation of the 30" RCP; construction of Junction Boxes JB1, JB2, JB3, and JB4; Construction of the outlet structure; associated excavation, backfilling to preconstruction ground elevation, and compaction.

- Relief Wells 7&8 @ ProLogis - The work includes all costs associated with mob/demob to the site, drilling for wells, provision and installation of well casing, screens, plugs, centralizers, filter pack, grout, outflow pipe, flap gate, pvc pipe, and metals for lid; sterilization; pump test; soil tests. Also included is the cost for the construction of the vaults.

- Gabions @ Floodwall – This item includes all cost associated with furnishing, hauling, handling, placing, and maintaining the riprap and cages until final acceptance by the government for the gabion protection at the floodwall.

0109a: Government Field Office – Bidder is directed to Section 01500 TEMPORARY CONSTRUCTION FACILITIES.

0109b: This item includes all costs associated with the furnishing/application of anti-graffiti sealer to the walls of: Q0 North/South transition; M21/M22, and the Closure Monolith; Q3a – M28/M29, and Closure Monolith; R1a – I-wall, M25/M26, and Closure Monolith; R2 – I-wall, Storage Monolith, Closure Monolith (S), Closure Monolith (N), Floodwall Monolith (1), Floodwall Monolith (2), Floodwall Monolith (3), and M27; Riverside Floodwall – both sides.

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Project: Missouri River Levee System, Quindaro Levee and Stoplog Gap, (Levee Unit L-385), Riverside, Missouri

BIDDING SCHEDULE

~~BASE SCHEDULE PHASE I + PHASE II~~

ITEM ~~NO.~~	**~~DESCRIPTION~~**	**EST ~~QTY~~**	**~~UNIT~~**	**UNIT ~~PRICE~~**	**~~SUBTOTAL~~**	**~~AMT~~**
0110	Mobilization/ Demobilization		LS			_____
0111	Utility Relocations					
	a. Mo. Gas Energy - Design		LS			$_____
	b. Mo. Gas Energy – Construction		LS			$500,000
	c. Mo.-Amer Water - Design		LS			$_____
	d. Mo.-Amer Water – Construction		LS			$400,000
	e. Southwestern Bell Telephone - Design		LS			$_____
	f. Southwestern Bell Telephone - Construction		LS			$300,000
	g. City of KCMO - Design		LS			$_____
	h. City of KCMO - Construction		LS			$200,000
	i. Equilon - Design		LS			$_____
	j. Equilon - Construction		LS			$200,000
	k. Conoco - Design		LS			$_____
	l. Conoco - Construction		LS			$300,000
	m.AT&T - Design		LS			$_____
	n. AT&T - Construction		LS			$150,000
	o. Williams Energy - Design		LS			$_____
	p. Williams Energy – Construction		LS			$600,000
	q. Williams Natural Gas – Design		LS			$_____

Project: Missouri River Levee System, Quindaro Levee and Stoplog Gap, (Levee Unit L-385) Riverside, Missouri

BIDDING SCHEDULE

~~BASE SCHEDULE PHASE I + PHASE II~~

ITEM ~~NO.~~	**~~DESCRIPTION~~**	**EST ~~QTY~~**	**~~UNIT~~**	**UNIT ~~PRICE~~**	**~~SUBTOTAL~~**	**~~AMT~~**
	r. Williams Natural Gas – Construction		LS			$500,000
	s. Williams Communication – Design		LS			$_____
	t. Williams Communication – Construction		LS			$ 25,000
	u. Argosy – Design		LS			$_____
	v. Argosy – Construction		LS			$550,000
	w. City of Riverside - Design		LS			$_____
	x. City of Riverside - Construction		LS			$250,000
	y. KCPL - Design		LS			$_____
	z. KCPL - Construction		LS			$500,000
0112	Utility Relocations by Contractor		LS			$_____
0113	Demolition/Sitework (Quindaro_)		LS			$_____
0114	Protective Services of Q1/Q3		LS			$_____
0115	Construction Staging by Railroad for Q1/Q3		LS			$_____
0116	H-Piles 14x102	22,052	LF	$_____		$_____
0117	Test Piles - Tensile Load Test		LS	$_____		$_____

Project: Missouri River Levee System, Quindaro Levee and Stoplog Gap, (Levee Unit L-385) Riverside, Missouri

BIDDING SCHEDULE

~~BASE SCHEDULE PHASE I + PHASE II~~

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT PRICE	SUBTOTAL	AMT
0131	**~~Stoplog Gap Q3A~~**		LS			$_____
	-Construction Staging		LS		$_____	
	-Test Piles - Mob/ Demob		LS		$_____	
	-I-Wall Sheetpiling		LS		$_____	
	-Seepage Cutoff Wall		LS		$_____	
	-Not Used		LS		$_____	
	-M28		LS		$_____	
	-M29		LS		$_____	
	-Closure Monolith		LS		$_____	
	-Stoplogs/Associated Metals for A3a		LS		$_____	
	-Pavement Reconstruction		LS		$_____	
0132	**~~Drainage Systems (Quindaro)~~**		LS			$_____
	-Gatewell #2		LS		$_____	
	-Gatewell #4		LS		$_____	
	-Drainage System #8		LS		$_____	
	-Hwy 9 Earthwork and Drainage System		LS		$_____	
	~~Quindaro Levee (Phase 1)~~					
0133	Clearing and Grubbing		LS			$_____
0134	Required Excavation	415,777	CY	$_____		$_____
0135	Not Used					
0136	New Fencing	4,235	LF	$_____		$_____
0137	Riprap	22,701	TONS	$_____		$_____
0138	Bedding	5,454	TONS	$_____		$_____
0139	Rockfill	9,790	TONS	$_____		$_____

Project: Missouri River Levee System, Quindaro Levee and Stoplog Gap, (Levee Unit L-385) Riverside, Missouri

BIDDING SCHEDULE

~~BASE SCHEDULE PHASE I + PHASE II~~

ITEM ~~NO.~~	**~~DESCRIPTION~~**	**EST ~~QTY~~**	**~~UNIT~~**	**UNIT ~~PRICE~~**	**~~SUBTOTAL~~**	**~~AMT~~**
	GW#9 Relief Wells 5&6		LS		$_____	
	Gatewell #10		LS		$_____	
	Gatewell #11		LS		$_____	
	GW#11 Relief Wells 1 thru 4		LS		$_____	
	Sewer System #1 – Design		LS		$_____	
	Sewer System #1 - Construction		LS		$775,000	
	Drainage System #2		LS		$_____	
	Drainage System #3		LS		$_____	
	Drainage System #4		LS		$_____	
	Drainage System #5		LS		$_____	
	Drainage System #6A		LS		$_____	
	Drainage System #6B		LS		$_____	
	Drainage System at 9B		LS		$_____	
	Interior Detension Basin South Red-X		LS		$_____	
	Red-X Ditch		LS		$_____	
	Drainage System @ Prologis		LS		$_____	
	Relief Wells 7&8 @ Prologis		LS		$_____	
	Gabions @ Floodwall		LS		$_____	
0200	Government Field Office	36	MONTHS	$_____	$_____	
0201	Anti-Graffiti Sealer (OPTION 1)	54,300	SF	$_____	$_____	

TOTAL SCHEDULE PHASE I + II $_____

Determination of the Bidder's total price for the proposed work will be based on the TOTAL of the BASE SCHEDULE and OPTION SCHEDULE. Immediate award will be made of the BASE SCHEDULE. At the option of the Government, the OPTION SCHEDULE may be awarded at the bid price after Notice of Award for the BASE SCHEDULE work. The Government does not guarantee any work beyond that of the BASE SCHEDULE. The Government reserves the right to pick up the OPTION SCHEDULE at the bid price within 60 calendar days after the Notice to Proceed. Bidders' attention is directed to SECTION 00100, paragraph titled "Evaluation of Options".

Project: Missouri River Levee System, Quindaro Levee and Stoplog Gap,
(Levee Unit L-385) Riverside, Missouri

BIDDING SCHEDULE PHASE I + PHASE II BID NOTES

- Drainage System #8 - – The work includes all labor, equipment, and materials necessary to: perform structural excavation; place forms, reinforcing, and concrete for the gatewell structure base, walls, and elevated slab; finish and cure concrete; fabricate, furnish and install gatewell metals including but not limited to ladder rungs, grating, angle iron, expansion anchors, steel plates, screws, sluice gate, pipe railing, chains, and pipe stands; perform excavation/backfilling to preconstruction ground elevation /compaction for RCP; perform subgrade preparation and fine grading; place forms, reinforcing, and concrete for the pipe cradles; finish and cure concrete; furnish, handle, and place reinforced concrete pipe; perform structural excavation for inlet ditch/inlet; place forms, reinforcing, and concrete for the inlet structure base, and walls; finish and cure concrete; perform structural excavation for outlet and ditch; place forms, reinforcing, and concrete for the outlet structure base, and walls; finish and cure concrete. This item also includes the furnishing, handling, and installation of the 60" Flap gate; This item also includes all cost associated with furnishing, hauling, handling, placing, and maintaining the riprap/bedding for the outlet structure on Drainage System #8 until final acceptance by the government.

- Highway 9 Earthwork and Drainage System – The work includes the provision of all labor, equipment, and materials required for clearing and grubbing, ditch excavation, impervious fill, plugging of a storm drain, bore/jack and grade highway 9 ramp, and seeding and mulching.

0133: Clearing and Grubbing – The work includes the provision of all labor, equipment, and materials required for clearing and grubbing the work site, the removal of trash and debris resulting from the clearing operations and the disposal of cleared and grubbed debris, trash and material resulting form the clearing operations. The work also includes the provision of all labor, equipment, and materials for the removal of fence posts and associated concrete, chain link fabric, barbed wire, gates and associated hardware from the work site; also included is hauling of material offsite, and proper disposal offsite. Fencing material is not to be reused.

0134: Required Excavation – The work includes the provision of all labor, equipment, and materials required for the excavation, inspection, and backfilling of the inspection trench; excavation, loading, hauling, and dumping of the existing levee material; and the excavation, loading, hauling, and dumping of the borrow area material.

0135: Not Used

0136: New Fencing – New fencing includes the provision and installation of corner/line/gate posts with concrete, brace bars, chainlink fabric, stretcher bars, truss rods with turnbuckles, line post wire ties, tension wire, wire hog rings, post brackets with barb wire, locking devices, plunger bar and all other details shown on drawings.

0137: Riprap – This item includes all cost associated with furnishing, hauling, handling, placing, and maintaining the riprap until final acceptance by the government. This item does not include riprap costs for Gatewell #4 or Drainage System #8.

0138: Bedding – This item includes all cost associated with furnishing, hauling, handling, placing, and maintaining the bedding material until the placement of riprap cover is completed.

0139: Rockfill – This item includes all labor, equipment, and material costs associated with furnishing, hauling, handling, and placement of rockfill material within the riverward berm slopes.

Project: Missouri River Levee System, Quindaro Levee and Stoplog Gap,
(Levee Unit L-385) Riverside, Missouri

BIDDING SCHEDULE PHASE I + PHASE II BID NOTES

- Gatewell Structure #9 - The work includes all costs associated with sheetpiling; excavation; base slab; structure walls; precast structural walls, elevated slab, backfilling/compaction, ladder/platforms, pipe railing, sluice gate, electrical service, breakout of existing pipe, traffic control, bypass pipe, temporary bypass pipe and pump; waterline; water nozzle flushing system; concrete stairs on grade; backflow vault base slab; backflow preventer vault walls; mob/demob; site restoration.

- GW#9 Relief Wells 5&6 – The work includes all costs associated with mob/demob to the site, drilling for wells, provision and installation of well casing, screens, plugs, centralizers, filter pack, grout, outflow pipe, flap gate, pvc pipe, and metals for lid; sterilization; pump test; soil tests.

- Gatewell Structure #10 – The work includes all costs associated with the construction of the base slab, walls, elevated slab, metals, pipe, cradle, concrete collar, outlet structure, flap gate, ditch, associated excavation, backfilling to preconstruction ground elevation, and compaction.

- Gatewell Structure #11 - The work includes all costs associated with the construction of piles for the base slab, base slab, walls, elevated slab, metals, pipe, cradle, inlet/outlet structure, flap gate, associated excavation, backfilling to preconstruction ground elevation, and compaction.

- Gatewell #11 Relief Wells 1 thru 4 – The work includes all costs associated with mob/demob to the site, drilling for wells, provision and installation of well casing, screens, plugs, centralizers, filter pack, grout, outflow pipe, flap gate, pvc pipe, and metals for lid; sterilization; pump test; soil tests.

- Sewer System #1 – Design - The work includes all the design costs associated with the design of gatewell #6A, and metals associated with gatewell #6A.

- Sewer System #1 – Construction - The work includes all costs associated with the construction of gatewell #6A, the provision and installation of the 66” RCP, metals associated with gatewell #6A, demolition, associated excavation, backfilling, compaction, and the temporary bypass.

- Drainage System #2 – The work includes all costs associated with the construction of gatewell #6B, the provision and installation of the 24” RCP, metals associated with gatewell #6B, demolition at JB-5 to EXMH28; temporary bypass for JB-5; Manhole JB-5, MH-6, JB-7; demolition of existing 24” VCP/CMP; demolition/modification of EXMH-28; associated excavation, backfilling to preconstruction ground elevation, and compaction.

- Drainage System #3 – The work includes all costs associated with the construction of Gate Structure GS-3, the demolition of the 6’x6’ RCB, the provision and installation of the 18” RCP, 18” DIP, grate inlet GI-14, curb inlet CI-13, and associated excavation, backfilling to preconstruction ground elevation, and compaction.

BIDDING SCHEDULE PHASE I + PHASE II BID NOTES

- Drainage System #4 – The work includes all costs associated with the construction of an inlet/outlet structure, manhole MH-12, 60" RCP, manhole MH-11, manhole MH-10A; associated excavation, backfilling to preconstruction ground elevation, compaction, and riprap.

- Drainage System #5 – The work includes all costs associated with the provision and installation of the 54" RCP, 30" RCP, outlet structure, field inlet FI-1, JB-2, JB-3, JB-4; associated excavation, backfilling to preconstruction ground elevation, and compaction.

- Drainage System #6A – The work includes all costs associated with the provision and installation of the 15" RCP, manhole MH-8; modification of exist EXCI-6; associated excavation, backfilling to preconstruction ground elevation, and compaction.

- Drainage System #6B – The work includes all costs associated with the provision and installation of the 48" RCP, 15" RCP, manhole MH-9; modification of EXCI-12; outlet structure; associated excavation, backfilling to preconstruction ground elevation, and compaction.

- Drainage System at 9B – The work includes all costs associated with the provision and installation of the 18"/30" RCP, 18"/30" Inlet structure, 18"/30" Outlet Structure; demolition and disposal of pavement; pavement repair; associated excavation, backfilling to preconstruction ground elevation, and compaction.

- Interior Detention Basin South Red-X – The work includes all costs associated with the provision and installation of the 15" CMP; excavation, backfilling and compaction for the 15" CMP; Excavation for the detention pond; and detention pond landscaping.

- Red-X Ditch – The work includes all costs associated with excavation and grading of the ditch; the construction of Junction Box JB-R98; the associated excavation, backfilling, and compaction for the extended pipe and junction box; demolition of the CMP in the Junction Box.

- Drainage System at ProLogis – The work includes all costs associated with the provision and installation of the 30" RCP; construction of Junction Boxes JB1, JB2, JB3, and JB4; Construction of the outlet structure; associated excavation, backfilling to preconstruction ground elevation, and compaction.

- Relief Wells 7&8 @ ProLogis - The work includes all costs associated with mob/demob to the site, drilling for wells, provision and installation of well casing, screens, plugs, centralizers, filter pack, grout, outflow pipe, flap gate, pvc pipe, and metals for lid; sterilization; pump test; soil tests. Also included is the cost for the construction of the vaults.

- Gabions @ Floodwall – This item includes all cost associated with furnishing, hauling, handling, placing, and maintaining the riprap and cages until final acceptance by the government for the gabion protection at the floodwall

0200: Government Field Office – Bidder is directed to Section 01500 TEMPORARY CONSTRUCTION FACILITIES.

0201: Anti-Graffiti Sealer – This item includes all costs associated with the furnishing/application of anti-graffiti sealer to the walls of: Q0 North/South transition; M21/M22, and the Closure Monolith; Q3a – M28/M29, and Closure Monolith; R1a – I-wall, M25/M26, and Closure Monolith; R2 – I-wall, Storage Monolith, Closure Monolith (S), Closure Monolith (N), Floodwall Monolith (1), Floodwall Monolith (2), Floodwall Monolith (3), and M27; Riverside Floodwall – both sides.

Samples shall be collected at approved locations upon delivery to the site at the request of the Contracting Officer . Samples shall be tested to verify that the geotextile meets the requirements specified in TABLE 1, MINIMUM PHYSICAL REQUIREMENTS FOR DRAINAGE GEOTEXTILE. Samples shall be identified by manufacturers name, type of geotextile, lot number, roll number, and machine direction. Testing shall be performed at an approved laboratory. Test results from the lot under review shall be submitted and approved prior to deployment of that lot of geotextile. Rolls which are sampled shall be immediately rewrapped in their protective covering.

PART 3 EXECUTION

3.1 SURFACE PREPARATION

Surface on which the geotextile will be placed shall be prepared, to a relatively smooth surface condition, in accordance with the applicable portion of this specification and shall be free from obstruction, debris, depressions, erosion feature, or vegetation. Any irregularities will be removed so as to insure continuous, intimate contact of the geotextile with all the surface. Any loose material, soft or low density pockets of material, will be removed; erosion features such as rills, gullies etc. must be graded out of the surface before geotextile placement.

3.2 INSTALLATION OF THE GEOTEXTILE

3.2.1 General

The geotextile shall be placed in the manner and at the locations shown. At the time of installation, the geotextile shall be rejected if it has defects, rips, holes, flaws, deterioration or damage incurred during manufacture, transportation or storage.

3.2.2 Placement

The geotextile shall be placed with the long dimension perpendicular to the centerline of the levee and laid smooth and free of tension, stress, folds, wrinkles, or creases. The strips shall be placed to provide a minimum width of 24 inches of overlap for each joint. T The Contractor shall adjust the actual length of the geotextile used based on initial installation experience. Temporary pinning of the geotextile to help hold it in place until the riprap is placed shall be allowed. The temporary pins shall be removed as the riprap is placed to relieve high tensile stress which may occur during placement of material on the geotextile. Design protection of riprap should be in compliance with EM 1110-2-1601. Trimming shall be performed in such a manner that the geotextile shall not be damaged in any way.

3.3 PROTECTION

The geotextile shall be protected at all times during construction from contamination by surface runoff and any geotextile so contaminated shall be removed and replaced with uncontaminated geotextile. Any damage to the geotextile during its installation or during placement of riprap shall be

replaced by the Contractor at no cost to the Government. The work shall be scheduled so that the covering of the geotextile with a layer of the specified material is accomplished within 7 calendar days after placement of the geotextile. Failure to comply shall require replacement of geotextile. The geotextile shall be protected from damage prior to and during the placement of riprap or other materials. This may be accomplished by limiting the height of drop to less than 1 foot, by placing a cushioning layer of sand or gravel on top of the geotextile before placing the material, or other methods deemed necessary. Care should be taken to ensure that the utilized cushioning materials shall not impede the flow of water. Before placement of riprap or other materials, the Contractor shall demonstrate that the placement technique will not cause damage to the geotextile. In no case shall any type of equipment be allowed on the unprotected geotextile.

3.4 PLACEMENT OF CUSHIONING MATERIAL

Placing of cushioning material shall be performed in a manner to insure intimate contact of the geotextile with the prepared surface and with the cushioning material. The placement shall also be performed in a manner that shall not damage the geotextile including tear, puncture, or abrasion. On sloping surfaces the cushioning material shall be placed from the bottom of the slopes upward. During placement, the height of the drop of riprap material shall not be greater than 12 inches. Any geotextile damaged beneath the cushioning material shall be uncovered as necessary and replaced at no cost to the Government.

3.5 OVERLAPPING AND SEAMING

3.5.1 Overlapping

The overlap of geotextile rolls shall be 12 inches. Appropriate measures will be taken to insure required overlap exists after cushion placement.

3.5.2 Sewn Seams

High strength thread should be used such that seam test should conform to ASTM D 1683. The thread shall meet the chemical, ultraviolet, and physical requirements of the geotextile, and the color shall be different from that of the geotextile. The seam strength shall be equal to the strength required for the fabric in the direction across the seam. Overlapping J-type seams are preferable over prayer-type seams as the overlapping fabric reduces the chance of openings to occur at the seam. Double sewing shall be used specially for field seams to provide a safety factor against undetected missed stitches.

-- End of Section --

SD-09 Reports

Quality Control; GA-RE.

When work under this section is being performed, the Contractor shall submit three copies daily of records and tests of workmanship, equipment and materials, as well as records of corrective action taken.

SD-13 Certificates

Materials, Procedures, and Qualifications; GA-RE.

Manufacture certification the equipment furnished meets the contract requirements.

Also the Contractor shall submit for approval, in triplicate, certification of material tests and analyses and examinations. Test reports for material tests and analyses shall be identified with specific lots and items prior to installation.

1.3 QUALITY CONTROL

1.3.1 General

The Contractor shall establish and maintain quality control for the work specified in this section to assure compliance with the contract requirements and shall maintain detailed records of his quality control for construction operations, including but not limited to, the following:

(a) Material;
(b) Fabrication and workmanship; and
(c) Installation.

1.3.2 Certification

The Contractor shall certify that all materials, either specifically manufactured for this work or manufactured as a stock item, conform to the requirements of these Specifications. Such certification will not relieve the Contractor of responsibility for any fault in operation, workmanship or material that may develop before the completion of his work or guarantee. Tests shall be made as indicated in the respective section of the specifications or on the contract drawings and in the presence of the Contracting Officer's Representative (COR). The Contractor shall furnish the COR certified results, in triplicate, of any required test or analyses.

1.4 WORKMANSHIP

1.4.1 General

Workmanship shall be of the highest grade in accordance with the best modern practices to conform to the Specifications for the item of work being furnished.

1.4.2 Commercial Equipment

Commercial equipment furnished under this contract, but not designed specifically for this particular project, shall be the standard product of a manufacturer regularly engaged in the manufacture of equipment of this type; of current manufacture; new and unused; built on the multiple or repetitive system; and suitable for the intended use. The provisions of this section shall not apply to the manufacture of the items themselves, except as specifically directed by the COR.

1.4.3 Reporting

Three copies of these records and tests, as well as records of corrective action taken, shall be furnished to the COR daily when work under this Section is being performed.

1.5 DESIGN REQUIREMENTS

1.5.1 General

The manufacturer shall provide design calculations clearly defining all requirements specified herein and shown on the contract drawings. It is the responsibility of the Contractor to obtain the support of a manufacturer regularly engaged in the manufacture of sluice and line gates for the type of service required under this contract work. All gates shall be of the same manufacture and shall be designed, fabricated and assembled in accordance with standard sizes and gages. All components shall be adequate to withstand, without breakage or deleterious deformation, all stresses encountered during installation or operation under the conditions specified. All components shall be manufactured under the principles of interchangeability.

1.5.2 Gate

Each sluice gate shall be of the upward opening and rising stem type, and be manually operated. All gates shall be cast iron. Design of the sluice gates shall be in conformance with AWWA C501-92.

All new sluice gates, associated hoists and stems designed and furnished for this work shall be capable of resisting the design seating and design unseating heads given below. The design heads and operating heads are equal and are measured from the horizontal center line of the gate opening to the water surface elevation.

	Gate Number	Operating Media	Closure Type	Gate Size, (in)	Design Seating Head, (ft)	Design Unseating Head, (ft)
QL	GW #2	Storm Sewer	Flush Bottom	48"x48"	24	13
QL	GW #4	Storm Sewer	Conventional	60"x60"	28	9
QL	GW #5A	Storm Sewer	Conventional	60"x60"	32	16
RL	GW #6A	Sanitary Sewer	Flush Bottom	66"x66"	40	16
RL	GW #6B	Sanitary Sewer	Flush Bottom	24"x24"	39	16
RL	GW #7	Storm Sewer	Flush Bottom	36"x36"	33	15
RL	GW #8	Storm Sewer	Conventional	42"x42"	33	16

RL	GW #9	Sanitary Sewer	Flush Bottom	72"x72"	43	22
RL	GW #9	Sanitary Sewer	Conventional	18"x18"	40	18
RL	GW #10	Storm Sewer	Flush Bottom	48"x48"	21	5
RL	GW #11	Storm Sewer	Conventional	66"x66"	29	7

Each line gate shall be of the upward opening and nonrising stem type, and be manually operated. All gates shall be cast iron. Design of the sluice gates shall be in conformance with AWWA C501-92.

All new line gates, associated hoists and stems designed and furnished for this work shall be capable of resisting the design seating and design unseating heads given below. The design heads and operating heads are equal and are measured from the horizontal center line of the gate opening to the water surface elevation.

	Gate Number	Operating Media	Closure Type	Gate Size, (in)	Design Seating Head, (ft)	Design Unseating Head, (ft)
RL	GS-3	Line	Line	18	19	10

1.6 MEASUREMENT AND PAYMENT

No separate measurement or payment will be made for work covered under this Section and all costs shall be included in the contract unit or lump sum price for the item of work to which the materials and work is incidental.

PART 2 PRODUCTS

2.1 MATERIALS

The sluice gate frame and disc, stem guides, wall thimbles, pedestals, housings, yokes and retainer bars shall be cast iron, or cast iron containing nickel (Ni-Resist) conforming to ASTM A126, Class B or ASTM A48, Class 30.

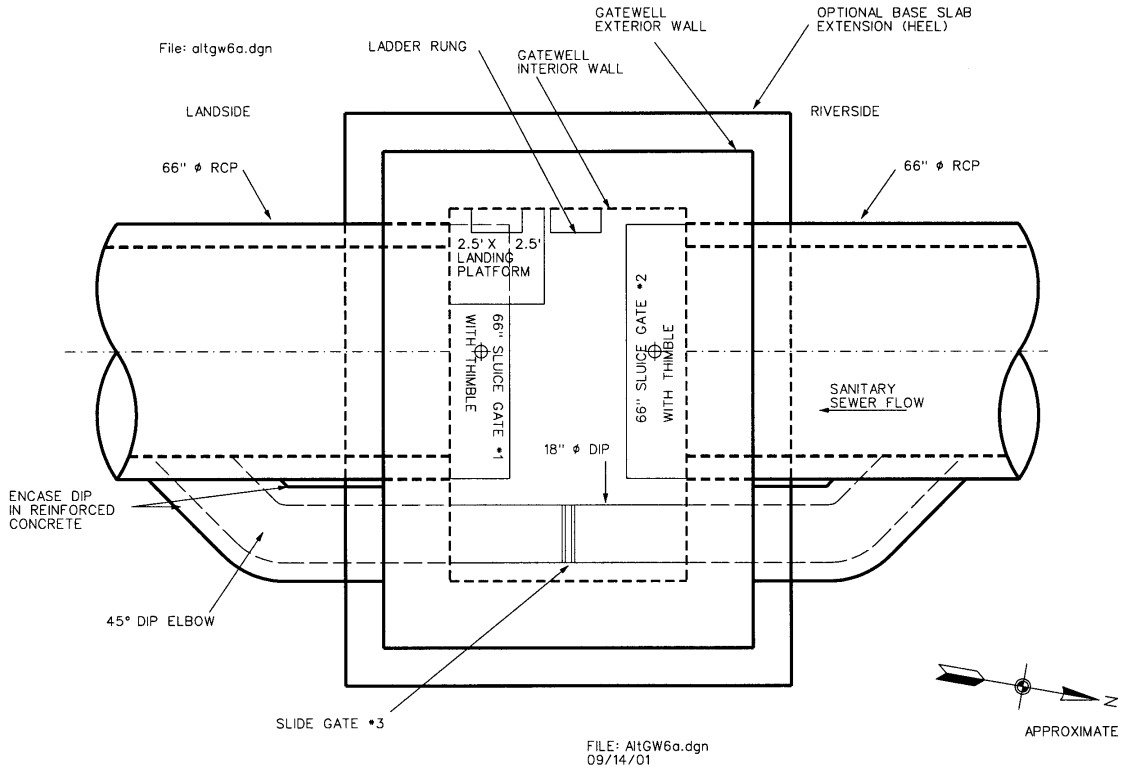
Gears shall be steel meeting the requirements of ASTM A108.

The wedges, lifting nut, stem block and stem guide bushings shall be bronze meeting requirements of ASTM B584.

The stem, stem key, wall thimble studs, gate assembly, stop plate and retainer, packing gland mechanism and the lift assembly stop collar shall be stainless steel meeting the requirements of ASTM A276, Type 304.

The gate assembly seating faces and the lift assembly stop nut shall be naval bronze meeting the requirements of ASTM B21.

Fasteners, including anchor bolts, shall be stainless steel meeting the requirements of ASTM F593, Type 304. Nuts shall be silicon bronze meeting the requirements of ASTM B98, Alloy 655.



---PLAN VIEW, FIGURE 1---
PROPOSED 66" SANITARY SEWER
GATEWELL 6A REVISION